(No Model.)

M. J. CADDEN.

CUSHIONED HORSESHOE.

No. 539,665. Patented May 21, 1895.

Fig. 1.

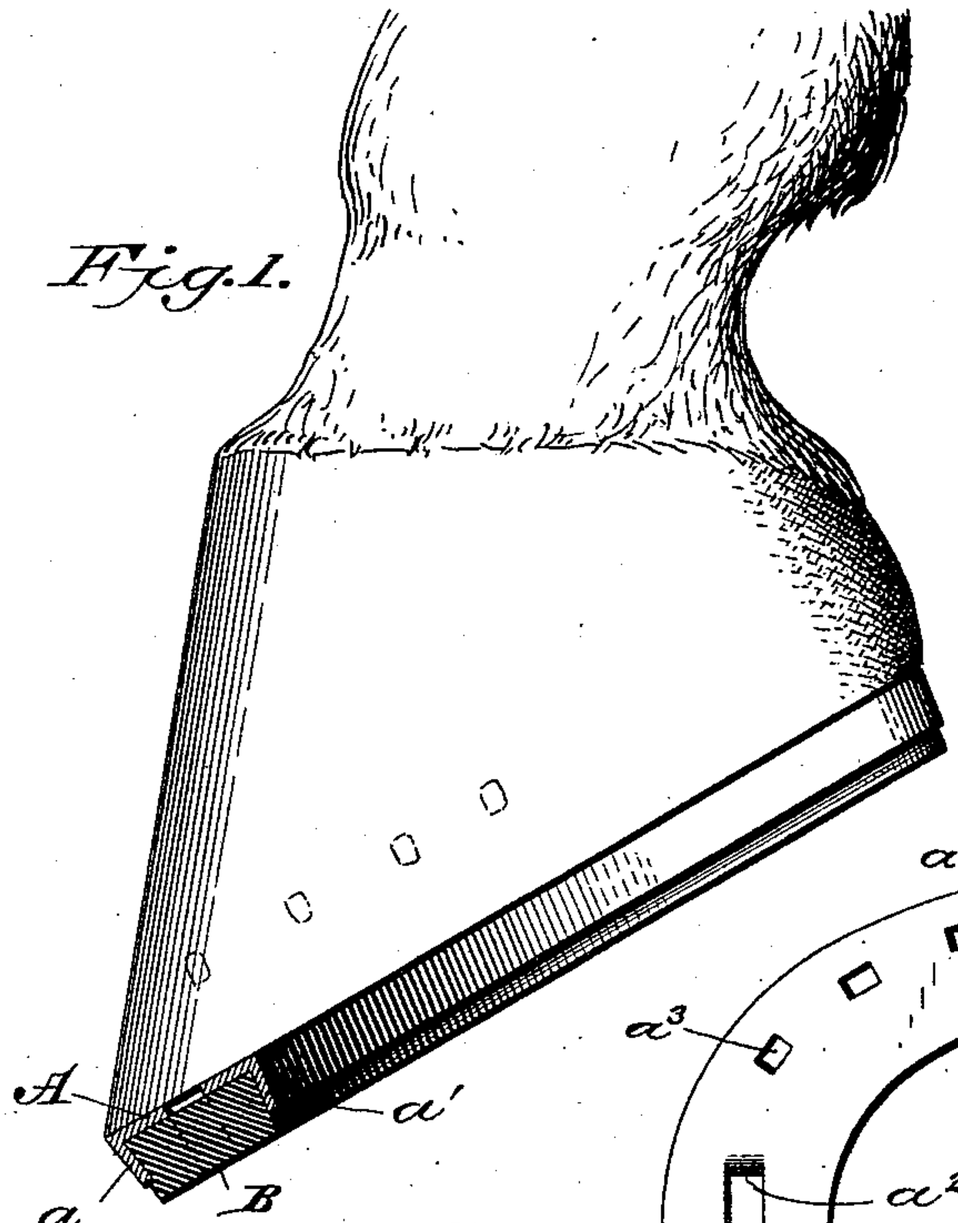


Fig. 2.

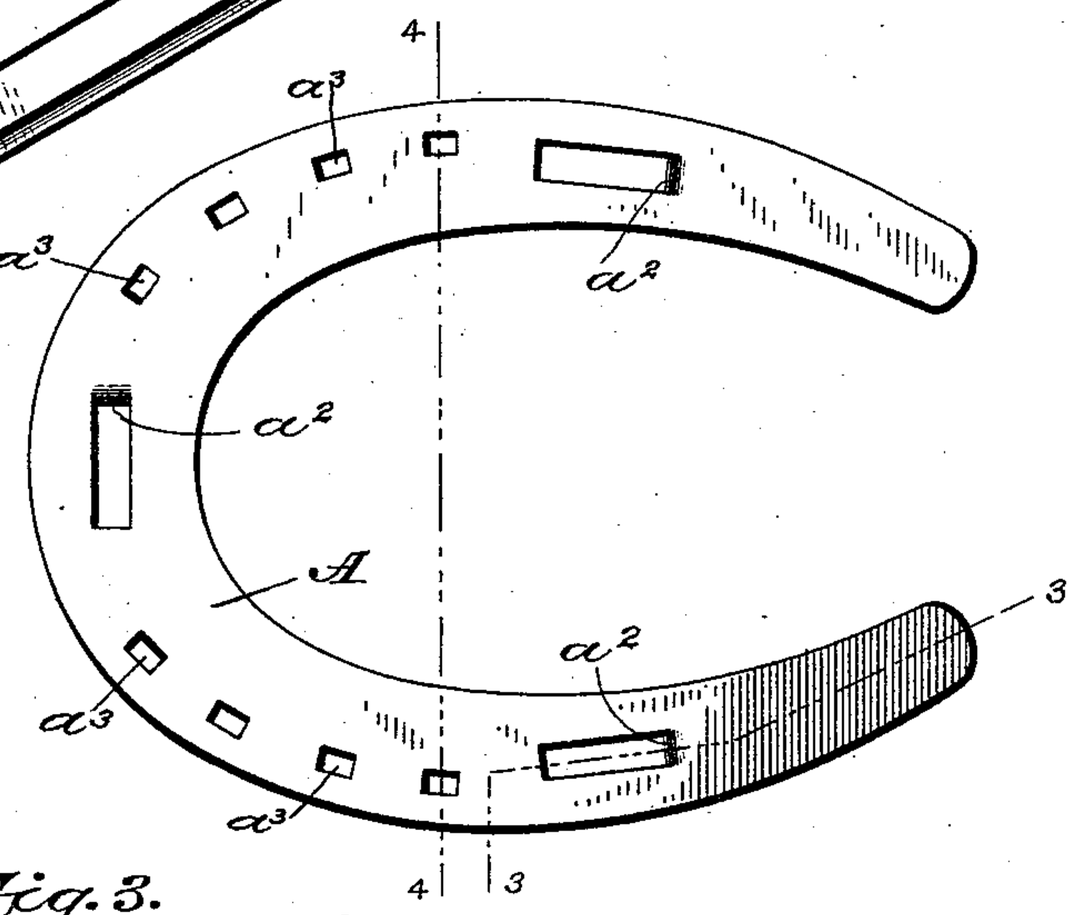


Fig. 3.

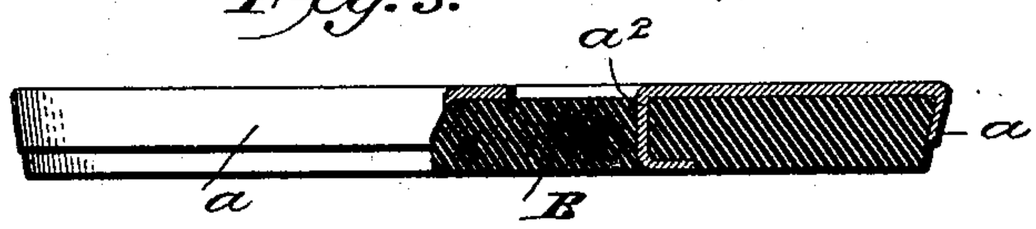
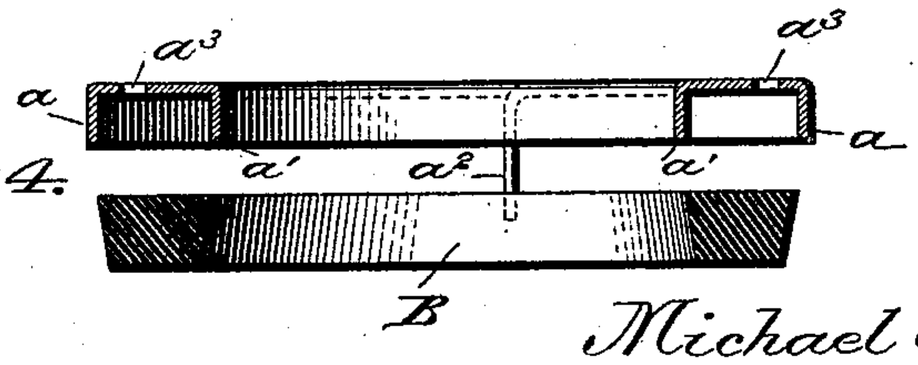


Fig. 4.



WITNESSES

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MICHAEL J. CADDEN, OF TERRE HAUTE, INDIANA, ASSIGNOR OF ONE-HALF TO RALPH M. SURATT, OF SAME PLACE.

CUSHIONED HORSESHOE.

SPECIFICATION forming part of Letters Patent No. 539,665, dated May 21, 1895.

Application filed March 21, 1895. Serial No. 542,681. (No model.)

To all whom it may concern:

Be it known that I, MICHAEL J. CADDEN, a citizen of the United States of America, residing at Terre Haute, in the county of Vigo and State of Indiana, have invented certain new and useful Improvements in Horseshoes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of my invention is to provide a light metallic shoe of peculiar construction which is adapted to receive a rubber cushion, the cushion having beveled edges which are adapted to be clamped by the metal shoe and retained in place by such clamping and by prongs which are struck up from the metal shoe so as to pass through the rubber and be bent over the same; such a shoe being designed for racing or speeding purposes.

In the accompanying drawings, forming part of this specification, Figure 1 is a sectional view of a horseshoe constructed in accordance with my invention, showing the same applied. Fig. 2 is a plan view of the metallic portion of the shoe. Fig. 3 is a side elevation partly in section, the section being on the line 3 3 of Fig. 2; and Fig. 4 is a sectional view on the line 4 4 of Fig. 2 with the parts separated.

A designates the metallic portion of the shoe which is preferably made up of sheet-metal, the upper part which lies against the hoof being of the usual configuration.

In order to give the shoe stiffness, and for other purposes, the edges of the metal are upset or bent so as to converge from the body portion, the converging sides being designated by the letters a and a'.

A shoe thus constructed has great rigidity and is extremely light, but would not serve for use without a packing or cushion as the depending sides a and a' would be bent out of shape by the weight of the animal.

Out of the upper part or body of the metal shoe are struck up prongs a^2, three being sufficient for practical use, and the length of these prongs exceeds the depth of the depending sides of the metal shoe, as will fully appear by reference to Fig. 4. The upper part of the metal shoe is also provided with the usual nail holes a^3.

B designates a cushion or rubber packing which is of the proper shape and has beveled sides over which snugly fit the depending sides of the metal shoe, and to secure this cushion in place the prongs a^2 are forced through the same and then bent at substantially right angles so as to hold the said cushion securely in place. The ends of the metal shoe are also inclined and the ends of the cushion beveled, as shown in Fig. 3.

In applying the shoe hereinbefore described to a hoof it is nailed thereto in the usual manner except that the nails are driven through slits therefor in the cushion so that the heads of said nails will bear against the under side of the metal shoe; thus protecting the nails by embedding them in the rubber.

I am aware that prior to my invention it has been proposed to make a horse-shoe having an india-rubber or elastic tread surface retained between lugs formed on a malleable metal shoe, the lugs engaging with the edges of the cushion to hold the same in place, and I do not therefore claim such invention broadly; but

What I claim as new, and desire to secure by Letters Patent, is—

A horse-shoe made up of a plate of metal having depending sides to form a dove-tail recess, prongs or projections struck up from the central portion of the metal shoe, said prongs being of greater length than the depending sides of the shoe, and a rubber or elastic cushion or tread surface tapered in cross-section and adapted to fit within the recessed shoe and project below the sides thereof, the prongs extending through the rubber cushion and bent over the same to retain said cushion securely in place, substantially as shown and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MICHAEL J. CADDEN.

Witnesses:

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FRED L. TYLER.